

Course of Study Green Technologies: Energy, Water, Climate (Study Cohort w22)

Core Qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory
Core Qualification Elective Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory	Interdisciplinary complement

Sample course plan B Bachelor Green Technologies: Energy, Water, Climate (GTBS)

Specialisation Biotechnologies			
1	Mathematics I		Technical Thermodynamics I
2	Mathematics I VL 4 Mathematics I HÜ 2	Technical Thermodynamics I VL 2 Technical Thermodynamics I HÜ 1	Basics of Electrical Engineering Basics of Electrical Engineering VL 3 Basics of Electrical Engineering GÜ 2
3	Mathematics I GÜ 2	Technical Thermodynamics I GÜ 1	Fundamentals of Fluid Mechanics Fundamentals of Fluid Mechanics VL 2 Fluid Mechanics for Process Engineering HÜ 2 Fundamentals on Fluid Mechanics GÜ 2
4			Heat and Mass Transfer Heat and Mass Transfer VL 2 Heat and Mass Transfer GÜ 2 Heat and Mass Transfer HÜ 1
5			
6			
7		Mathematics II	Technical Thermodynamics II
8		Mathematics II VL 4 Mathematics II HÜ 2 Mathematics II GÜ 2	Technical Thermodynamics II VL 2 Technical Thermodynamics II HÜ 1 Technical Thermodynamics II GÜ 1
9	General and Inorganic Chemistry		Sanitary Engineering I
10	General and Inorganic Chemistry VL 3 Fundamentals in Inorganic Chemistry PR 3		Wastewater Disposal VL 2 Wastewater Disposal HÜ 1 Drinking Water Supply VL 2 Drinking Water Supply HÜ 1
11	Fundamentals in Inorganic Chemistry GÜ 1		Introduction to Control Systems Introduction to Control Systems VL 2 Introduction to Control Systems GÜ 2
12			
13			
14			Mathematics III
15	Computer Science for Engineers - Introduction and Overview	Organic Chemistry	Conventional Energy Systems and Energy Industry
16	Computer Science for Engineers - Introduction and Overview VL 3	Organic Chemistry VL 4 Organic Chemistry PR 3	Power Industry VL 1 Energy markets and energy trading VL 2 Fossil Energy Systems VL 2 Fuels I VL 1
17	Computer Science for Engineers - Introduction and Overview GÜ 2		Economic and environmental project assessment Basics of Environmental Project Assessment VL 2 Case studies economic and environmental project assessment GÜ 1 Basics of economic project assessment VL 2
18			
19			
20			Renewable Energies
21	Green Technologies I	Engineering Mechanics II (Elastostatics)	Biological and Biochemical Fundamentals (part 1)
22	Meteorology and Climate Systems - Introduction VL 2 Introduction Green Technologies SE 2	Engineering Mechanics II VL 2 Engineering Mechanics II GÜ 2 Engineering Mechanics II HÜ 2	Renewable Energies I VL 2 Renewable Energies II VL 2 Renewable Energies I HÜ 1 Fuels II VL 1 Biological and Biochemical Fundamentals VL 2
23	Meteorology and Climate Systems - Introduction GÜ 2		Bioprocess Technology I Bioprocess Technology I VL 2 Bioprocess Technology I HÜ 2 Bioprocess Technology I - Fundamental Practical PR 2
24			
25			
26			Green Technologies II (part 2)
27	Engineering Mechanics I (Stereostatics)		Biochemistry and Microbiology
28	Engineering Mechanics I VL 2 Engineering Mechanics I GÜ 2		Biochemistry VL 2 Biochemistry PBL 1 Microbiology VL 2 Microbiology PBL 1
29	Engineering Mechanics I HÜ 1		
30			
31			
32			
33			
34			
Non-technical Courses for Bachelors (from catalogue) - 6LP			

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.

